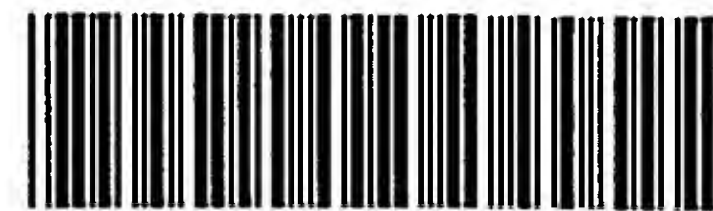


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/593,384  
Source: IFWP  
Date Processed by STIC: 09/27/2006

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 09/27/2006

PATENT APPLICATION: US/10/593,384

TIME: 10:25:30

Input Set : A:\N91297A WO SER SA JNM sequence listing.txt

Output Set: N:\CRF4\09272006\J593384.raw

3 <110> APPLICANT: Isis Innovation Limited  
 5 <120> TITLE OF INVENTION: Diagnostic Test  
 7 <130> FILE REFERENCE: N.91297A SER/SA  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/593,384  
 C--> 10 <141> CURRENT FILING DATE: 2006-09-18  
 12 <150> PRIOR APPLICATION NUMBER: GB 0406271.7  
 13 <151> PRIOR FILING DATE: 2004-03-19  
 15 <160> NUMBER OF SEQ ID NOS: 31  
 17 <170> SOFTWARE: PatentIn version 3.2  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 729  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Mycobacterium tuberculosis  
 24 <400> SEQUENCE: 1  
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 27 1 5 10 15  
 30 Pro Gly Gly Trp Val Glu Ala Asp Glu Asp Thr Phe Tyr Asp Arg Ala  
 31 20 25 30  
 34 Gln Glu Tyr Ser Gln Val Leu Gln Arg Val Thr Asp Val Leu Asp Thr  
 35 35 40 45  
 38 Cys Arg Gln Gln Lys Gly His Val Phe Glu Gly Gly Leu Trp Ser Gly  
 39 50 55 60  
 42 Gly Ala Ala Asn Ala Ala Asn Gly Ala Leu Gly Ala Asn Ile Asn Gln  
 43 65 70 75 80  
 46 Leu Met Thr Leu Gln Asp Tyr Leu Ala Thr Val Ile Thr Trp His Arg  
 47 85 90 95  
 50 His Ile Ala Gly Leu Ile Glu Gln Ala Lys Ser Asp Ile Gly Asn Asn  
 51 100 105 110  
 54 Val Asp Gly Ala Gln Arg Glu Ile Asp Ile Leu Glu Asn Asp Pro Ser  
 55 115 120 125  
 58 Leu Asp Ala Asp Glu Arg His Thr Ala Ile Asn Ser Leu Val Thr Ala  
 59 130 135 140  
 62 Thr His Gly Ala Asn Val Ser Leu Val Ala Glu Thr Ala Glu Arg Val  
 63 145 150 155 160  
 66 Leu Glu Ser Lys Asn Trp Lys Pro Pro Lys Asn Ala Leu Glu Asp Leu  
 67 165 170 175  
 70 Leu Gln Gln Lys Ser Pro Pro Pro Pro Asp Val Pro Thr Leu Val Val  
 71 180 185 190  
 74 Pro Ser Pro Gly Thr Pro Gly Thr Pro Gly Thr Pro Ile Thr Pro Gly  
 75 195 200 205  
 78 Thr Pro Ile Thr Pro Gly Thr Pro Ile Thr Pro Ile Pro Gly Ala Pro  
 79 210 215 220  
 82 Val Thr Pro Ile Thr Pro Thr Pro Gly Thr Pro Val Thr Pro Val Thr

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Input Set : A:\N91297A WO SER SA JNM sequence listing.txt

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83	225				230				235				240			
86	Pro	Gly	Lys	Pro	Val	Thr	Pro	Val	Thr	Pro	Val	Lys	Pro	Gly	Thr	Pro
87					245				250					255		
90	Gly	Glu	Pro	Thr	Pro	Ile	Thr	Pro	Val	Thr	Pro	Pro	Val	Ala	Pro	Ala
91					260				265					270		
94	Thr	Pro	Ala	Thr	Pro	Ala	Thr	Pro	Val	Thr	Pro	Ala	Pro	Ala	Pro	His
95					275				280					285		
98	Pro	Gln	Pro	Ala	Pro	Ala	Pro	Ala	Pro	Ser	Pro	Gly	Pro	Gln	Pro	Val
99		290						295					300			
102	Thr	Pro	Ala	Thr	Pro	Gly	Pro	Ser	Gly	Pro	Ala	Thr	Pro	Gly	Thr	Pro
103	305					310					315				320	
106	Gly	Gly	Glu	Pro	Ala	Pro	His	Val	Lys	Pro	Ala	Ala	Leu	Ala	Glu	Gln
107					325				330					335		
110	Pro	Gly	Val	Pro	Gly	Gln	His	Ala	Gly	Gly	Gly	Thr	Gln	Ser	Gly	Pro
111					340				345					350		
114	Ala	His	Ala	Asp	Glu	Ser	Ala	Ala	Ser	Val	Thr	Pro	Ala	Ala	Ala	Ser
115					355				360					365		
118	Gly	Val	Pro	Gly	Ala	Arg	Ala	Ala	Ala	Ala	Ala	Pro	Ser	Gly	Thr	Ala
119		370					375					380				
122	Val	Gly	Ala	Gly	Ala	Arg	Ser	Ser	Val	Gly	Thr	Ala	Ala	Ala	Ser	Gly
123	385					390				395				400		
126	Ala	Gly	Ser	His	Ala	Ala	Thr	Gly	Arg	Ala	Pro	Val	Ala	Thr	Ser	Asp
127					405				410					415		
130	Lys	Ala	Ala	Ala	Pro	Ser	Thr	Arg	Ala	Ala	Ser	Ala	Arg	Thr	Ala	Pro
131					420				425					430		
134	Pro	Ala	Arg	Pro	Pro	Ser	Thr	Asp	His	Ile	Asp	Lys	Pro	Asp	Arg	Ser
135					435				440					445		
138	Glu	Ser	Ala	Asp	Asp	Gly	Thr	Pro	Val	Ser	Met	Ile	Pro	Val	Ser	Ala
139		450					455					460				
142	Ala	Arg	Ala	Ala	Arg	Asp	Ala	Ala	Thr	Ala	Ala	Ala	Ser	Ala	Arg	Gln
143	465					470				475				480		
146	Arg	Gly	Arg	Gly	Asp	Ala	Leu	Arg	Leu	Ala	Arg	Arg	Ile	Ala	Ala	Ala
147					485				490					495		
150	Leu	Asn	Ala	Ser	Asp	Asn	Asn	Ala	Gly	Asp	Tyr	Gly	Phe	Phe	Trp	Ile
151					500				505					510		
154	Thr	Ala	Val	Thr	Thr	Asp	Gly	Ser	Ile	Val	Val	Ala	Asn	Ser	Tyr	Gly
155					515				520					525		
158	Leu	Ala	Tyr	Ile	Pro	Asp	Gly	Met	Glu	Leu	Pro	Asn	Lys	Val	Tyr	Leu
159		530					535						540			
162	Ala	Ser	Ala	Asp	His	Ala	Ile	Pro	Val	Asp	Glu	Ile	Ala	Arg	Cys	Ala
163	545					550				555				560		
166	Thr	Tyr	Pro	Val	Leu	Ala	Val	Gln	Ala	Trp	Ala	Ala	Phe	His	Asp	Met
167					565				570					575		
170	Thr	Leu	Arg	Ala	Val	Ile	Gly	Thr	Ala	Glu	Gln	Leu	Ala	Ser	Ser	Asp
171					580				585					590		
174	Pro	Gly	Val	Ala	Lys	Ile	Val	Leu	Glu	Pro	Asp	Asp	Ile	Pro	Glu	Ser
175					595				600				605			
178	Gly	Lys	Met	Thr	Gly	Arg	Ser	Arg	Leu	Glu	Val	Val	Asp	Pro	Ser	Ala
179		610					615					620				

## RAW SEQUENCE LISTING

DATE: 09/27/2006

PATENT APPLICATION: US/10/593,384

TIME: 10:25:30

Input Set : A:\N91297A WO SER SA JNM sequence listing.txt

Output Set: N:\CRF4\09272006\J593384.raw

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182 Ala Ala Gln Leu Ala Asp Thr Thr Asp Gln Arg Leu Leu Asp Leu Leu
183 625                      630                      635                      640
186 Pro Pro Ala Pro Val Asp Val Asn Pro Pro Gly Asp Glu Arg His Met
187                      645                      650                      655
190 Leu Trp Phe Glu Leu Met Lys Pro Met Thr Ser Thr Ala Thr Gly Arg
191                      660                      665                      670
194 Glu Ala Ala His Leu Arg Ala Phe Arg Ala Tyr Ala Ala His Ser Gln
195                      675                      680                      685
198 Glu Ile Ala Leu His Gln Ala His Thr Ala Thr Asp Ala Ala Val Gln
199                      690                      695                      700
202 Arg Val Ala Val Ala Asp Trp Leu Tyr Trp Gln Tyr Val Thr Gly Leu
203 705                      710                      715                      720
206 Leu Asp Arg Ala Leu Ala Ala Ala Cys
207                      725
210 <210> SEQ ID NO: 2
211 <211> LENGTH: 15
212 <212> TYPE: PRT
213 <213> ORGANISM: Mycobacterium tuberculosis
215 <400> SEQUENCE: 2
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218 1                      5                      10                      15
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222 <211> LENGTH: 15
223 <212> TYPE: PRT
224 <213> ORGANISM: Mycobacterium tuberculosis
226 <400> SEQUENCE: 3
228 Pro Thr Gly Ser Tyr Ala Arg Gln Met Leu Asp Pro Gly Gly Trp
229 1                      5                      10                      15
232 <210> SEQ ID NO: 4
233 <211> LENGTH: 15
234 <212> TYPE: PRT
235 <213> ORGANISM: Mycobacterium tuberculosis
237 <400> SEQUENCE: 4
239 Ala Arg Gln Met Leu Asp Pro Gly Gly Trp Val Glu Ala Asp Glu
240 1                      5                      10                      15
243 <210> SEQ ID NO: 5
244 <211> LENGTH: 15
245 <212> TYPE: PRT
246 <213> ORGANISM: Mycobacterium tuberculosis
248 <400> SEQUENCE: 5
250 Asp Pro Gly Gly Trp Val Glu Ala Asp Glu Asp Thr Phe Tyr Asp
251 1                      5                      10                      15
254 <210> SEQ ID NO: 6
255 <211> LENGTH: 15
256 <212> TYPE: PRT
257 <213> ORGANISM: Mycobacterium tuberculosis
259 <400> SEQUENCE: 6
261 Val Glu Ala Asp Glu Asp Thr Phe Tyr Asp Arg Ala Gln Glu Tyr
262 1                      5                      10                      15

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## RAW SEQUENCE LISTING

DATE: 09/27/2006

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TIME: 10:25:30

Input Set : A:\N91297A WO SER SA JNM sequence listing.txt

Output Set: N:\CRF4\09272006\J593384.raw

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265 <210> SEQ ID NO: 7
266 <211> LENGTH: 15
267 <212> TYPE: PRT
268 <213> ORGANISM: Mycobacterium tuberculosis
270 <400> SEQUENCE: 7
272 Asp Thr Phe Tyr Asp Arg Ala Gln Glu Tyr Ser Gln Val Leu Gln
273 1          5          10          15
276 <210> SEQ ID NO: 8
277 <211> LENGTH: 15
278 <212> TYPE: PRT
279 <213> ORGANISM: Mycobacterium tuberculosis
281 <400> SEQUENCE: 8
283 Arg Ala Gln Glu Tyr Ser Gln Val Leu Gln Arg Val Thr Asp Val
284 1          5          10          15
287 <210> SEQ ID NO: 9
288 <211> LENGTH: 15
289 <212> TYPE: PRT
290 <213> ORGANISM: Mycobacterium tuberculosis
292 <400> SEQUENCE: 9
294 Ser Gln Val Leu Gln Arg Val Thr Asp Val Leu Asp Thr Cys Arg
295 1          5          10          15
298 <210> SEQ ID NO: 10
299 <211> LENGTH: 15
300 <212> TYPE: PRT
301 <213> ORGANISM: Mycobacterium tuberculosis
303 <400> SEQUENCE: 10
305 Arg Val Thr Asp Val Leu Asp Thr Cys Arg Gln Gln Lys Gly His
306 1          5          10          15
309 <210> SEQ ID NO: 11
310 <211> LENGTH: 15
311 <212> TYPE: PRT
312 <213> ORGANISM: Mycobacterium tuberculosis
314 <400> SEQUENCE: 11
316 Leu Asp Thr Cys Arg Gln Gln Lys Gly His Val Phe Glu Gly Gly
317 1          5          10          15
320 <210> SEQ ID NO: 12
321 <211> LENGTH: 15
322 <212> TYPE: PRT
323 <213> ORGANISM: Mycobacterium tuberculosis
325 <400> SEQUENCE: 12
327 Gln Gln Lys Gly His Val Phe Glu Gly Gly Leu Trp Ser Gly Gly
328 1          5          10          15
331 <210> SEQ ID NO: 13
332 <211> LENGTH: 15
333 <212> TYPE: PRT
334 <213> ORGANISM: Mycobacterium tuberculosis
336 <400> SEQUENCE: 13
338 Val Phe Glu Gly Gly Leu Trp Ser Gly Gly Ala Ala Asn Ala Ala
339 1          5          10          15

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## RAW SEQUENCE LISTING

DATE: 09/27/2006

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TIME: 10:25:30

Input Set : A:\N91297A WO SER SA JNM sequence listing.txt

Output Set: N:\CRF4\09272006\J593384.raw

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343 <211> LENGTH: 15
344 <212> TYPE: PRT
345 <213> ORGANISM: Mycobacterium tuberculosis
347 <400> SEQUENCE: 14
349 Leu Trp Ser Gly Gly Ala Ala Asn Ala Ala Asn Gly Ala Leu Gly
350 1          5          10          15
353 <210> SEQ ID NO: 15
354 <211> LENGTH: 15
355 <212> TYPE: PRT
356 <213> ORGANISM: Mycobacterium tuberculosis
358 <400> SEQUENCE: 15
360 Ala Ala Asn Ala Ala Asn Gly Ala Leu Gly Ala Asn Ile Asn Gln
361 1          5          10          15
364 <210> SEQ ID NO: 16
365 <211> LENGTH: 15
366 <212> TYPE: PRT
367 <213> ORGANISM: Mycobacterium tuberculosis
369 <400> SEQUENCE: 16
371 Asn Gly Ala Leu Gly Ala Asn Ile Asn Gln Leu Met Thr Leu Gln
372 1          5          10          15
375 <210> SEQ ID NO: 17
376 <211> LENGTH: 15
377 <212> TYPE: PRT
378 <213> ORGANISM: Mycobacterium tuberculosis
380 <400> SEQUENCE: 17
382 Ala Asn Ile Asn Gln Leu Met Thr Leu Gln Asp Tyr Leu Ala Thr
383 1          5          10          15
386 <210> SEQ ID NO: 18
387 <211> LENGTH: 15
388 <212> TYPE: PRT
389 <213> ORGANISM: Mycobacterium tuberculosis
391 <400> SEQUENCE: 18
393 Leu Met Thr Leu Gln Asp Tyr Leu Ala Thr Val Ile Thr Trp His
394 1          5          10          15
397 <210> SEQ ID NO: 19
398 <211> LENGTH: 95
399 <212> TYPE: PRT
400 <213> ORGANISM: Mycobacterium tuberculosis
402 <400> SEQUENCE: 19
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405 1          5          10          15
408 Ala Ile Gln Gly Asn Val Thr Ser Ile His Ser Leu Leu Asp Glu Gly
409          20          25          30
412 Lys Gln Ser Leu Thr Lys Leu Ala Ala Trp Gly Gly Ser Gly Ser
413          35          40          45
416 Glu Ala Tyr Gln Gly Val Gln Gln Lys Trp Asp Ala Thr Ala Thr Glu
417          50          55          60
420 Leu Asn Asn Ala Leu Gln Asn Leu Ala Arg Thr Ile Ser Glu Ala Gly

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VERIFICATION SUMMARY

DATE: 09/27/2006

PATENT APPLICATION: US/10/593,384

TIME: 10:25:31

Input Set : A:\N91297A WO SER SA JNM sequence listing.txt

Output Set: N:\CRF4\09272006\J593384.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date